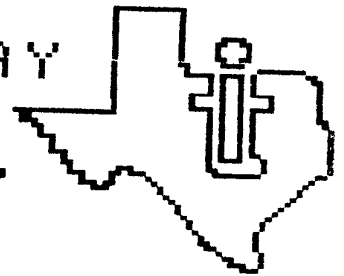




GREATER TAMPA BAY

TI USER GROUP

DEC 1988



 NEXT MEETING DEC 6 '88 AT 7:00 PM

Greater Tampa Bay TI User Group meets in Brandon Fla. on the first and third Tuesday of each month at Brandon High School in room 352.

The first Tuesday of the month is the general business meeting and to show off new hardware or software programs.

The third Tuesday is set aside for special interest group. If you have a problem with either hardware or software, this is the meeting to come to.

"CLUB ELECTION"

YOUR SUPPORT IS WHAT MAKES IT A GREAT CLUB

Officers

President: Tom Austin 654-3680	Vice President: Paul Wiese 985-1048
Librarian: Herman Nieuwendaal 962-1857	Secretary: Brenda Burwell 886-5942
Treasurer: Judy Chandler 935-2694	Editor: Robert Barnes 533-2275

*** TI HEAVEN ***

Clubs BBS 8/N/1 2400/1200/300 Baud 24 Hrs

PC Pursuit: Accessible FLTAM Sysop: Gary Sweers

813-654-titi (8484)

*** CY SWAP SHOP ***

2400/1200/300 Baud 24Hrs 8/N/1 Sysop: Cy Leonard

PC Pursuit Not Accessible but well worth the cost to sign on.

813-725-4568

=====

THINKING OUT LOUD

by: Robert E. Barnes

=====

Greetings fellow TI'ers, it is time for the last issue of your favorite newsletter for 1988. Actually, this issue should reach you a little early this month due to the election of officers of your club for the coming year. Look for the ballot elsewhere.

With the end of the year upon us, I would like to say that I have enjoyed my tenure as editor of the GTBTIUG Newsletter and I hope everyone has enjoyed the effort I have put into it. I am aware that there have been no graphics in the newsletter like I promised to try to do. But, I confess, graphics and art is my weak point and I do not like to cut and past and that is the only way I know to include graphics into a newsletter with the format I use here. I have tried to include things of interest for all of our member's, this means that I and Judy Chandler have taken the trouble to type articles from other newsletters that we thought you would enjoy. I have been fortunate that I have stumbled across several long term articles by authors that have helped fill the newsletter, authors such as Paul Scheidewantle and Jim Swedlow. And like I promised last month, Jim Peterson of Tigercub fame. Also, I have been in touch with Audrey Bucher of THE PUG PERIPHERAL, Pittsburgh User's Group and she was kind enough to send me a disk of her articles on Multiplan. I will start this month with this new column and it should run for the next 11 months. Thanks Audrey and to all those others that have made their articles available to me to reprint in GTBTIUG Newsletter.

So, If I am elected once again to fill the slot as your editor, I will continue to do my best to make this your favorite reading material

Let me say in closing that I and mine wish you and yours a very merry Christmas and that the holidays will bring you much cheer and joy. Robert

=====

PRESIDENTIAL RAMBLINGS

by: Tom Austin

=====

For those of you who were not at the meeting here is an accounting of our efforts to collect fairware money. To John Birdwell for DiskU-\$290, to Stu Olson for Mass Transfer-\$130, to Charles Earl for Telco-\$50, to John Johnson for Menu-\$65, to Bary Boone for Archiver, Systex and E/A 5 loader-\$330, and to Herman Nieuwendaal for Quad Lister-\$78. So our grand total of fairware monies to date is \$943. This is slightly more than I reported to MICROpendium as we collected a few more donations for Herman. I am very proud of our group. For a club of 55 members, many of who are new to the TI, we have done well. I hope that our challenge to the other users groups will hopefully be published in MICROpendium in December and spur other users groups into action.

Next I want to say a great big thanks to Paul for the super demonstration of TI Base. I really learned a lot about the program and have made up my mind to purchase a copy when Dennis Faherty comes over to give us a more detailed demonstration. How much better could a demo be than one done by the author of the software.

For those of you who were not in attendance, nominations for new officers were very active, with a whole bunch of names placed into nomination. As we did with the voting on the membership dues, you will find a ballot enclosed in this newsletter. If you can't or don't plan to attend the December meeting, please take the time to fill out the ballot and mail it to me at the address on the ballot. Something was mentioned at the meeting that bothered me. It was said that out-of-state members should not be

allowed to vote. After thinking about this, I feel that denying a paying member, out-of-state or not, the right to vote would be violating their rights. We don't have many members in this category, but it is still an important issue. This only applies to paid members, not to complementary members like Barry Boone, or John Birdwell. Since time is short I am making the decision to allow the two or three out-of-state members we have the right to vote in this election if they so choose to do so. If anyone feels that strongly about this, they should bring it up at a future meeting and it can be resolved for future elections. Now that I have that off my chest, I want to ask all members to think seriously about who they want for their next president, treasurer, and librarian, and then sit down and fill out your ballot and mail it in or be sure to attend the meeting to cast your vote in person. This is an important event for your club, one that can have a major impact. So if you value your club, as in all elections, make your voice heard, VOTE!!!!!!!

I guess this would be the best time to throw in some outgoing remarks. It has been an interesting and rewarding experience. I have tried to make things as interesting and educational as I possibly could under the circumstances. My main goal during my tenure as president was to increase the visibility of our group. I think that I was somewhat successful in that our group grew during a time when others were shrinking. Things may not look so rosy after the first of the year as we have seen several of our members slink off to use one of those machines made by the company that goes by the "I" word. That means that those of us still remaining true to the TI will have to work that much harder to keep our group viable. Like I have preached all along, the club will be only as strong as the support of the members. Many thanks to all the other officers, who without their help, it would have been impossible to

keep this club running. I have really enjoyed my time as your president and look forward to continuing our friendship as a member. Best wishes to all for a very Merry Christmas and the happiest of New Years. And best of luck to the new officers and to those who have opted to stay on for another year.

That's all for this newsletter. Don't forget to bring your hardware, software, etc. to sell. And remember folks, "IT'S YOUR CLUB!", it needs your support to make it a good club. You can do that by attending meetings, paying your dues, and giving your elected officers your input on what you want your club to do, and for this meeting, be sure to VOTE!!!!

MEETING RECAPS

by: Brenda Burwell

The meeting was called to order at 7:38pm with 24 members in attendance.

The main portion of the meeting was used to discuss the nominations for the three positions that will be vacated at the end of this year. Those three slots are: President, Treasurer, and Librarian. Elsewhere in this newsletter you will find a ballot to use if you will not be at the December meeting. This is the meeting at which those places will be filled. The nominations for those places are as follows.

- President-John Hohn, Paul Wiese, Jim McGlone, Charles Kinsey
- Treasurer-John Hohn, John Hartwig
- Librarian-Bob Lanouette, Charles Kinsey, Jim McGlone

Since Paul, current vice pres, is nominated for the president's job, should he be elected, the vp's slot will be empty. It was thus decided that the highest two vote-getters will be the top two executives. Any vote received at or before the meeting will be counted...any not there will not be

counted and your voice will not be heard.

The next order of business was the discussion of the possible repeat of last years Christmas meeting. About 70 TI'ers and family gathered at the Ponderosa. It was decided that we would like to do something on that order again but we need someone to organize it. Without the help of a gracious volunteer, this type meeting will not be possible. Time's a 'wasting.

ATTENTION! ATTENTION! ATTENTION!

At our December main meeting, Dennis Faherty will be with us to demonstrate "TI BASE 2.0". This version is as of yet not released, and believe you me, if any one knows this program it should be the author. Anyone who should be in the area is welcome to join us for this demo. Perhaps we can also persuade him to drag Chris along. I for one would love to see what TI ARTIST is REALLY supposed to be used for!

The lottery was won by Bobbie Chandler, Judy's spouse.

The demonstration for the evening was given by Paul, who gave us some prefuntory glances at TI BASE, but after reading the above announcement, I am sure you will understand why I forgo any further description...

TELCO ... A REVIEW

by: Tom Austin

For any of you that know me, you know that I am stuck on using Telco. As a matter of fact, I am about the only one in the group using it regularly. No matter how hard I try, I can't convert any of our hard core Mass Transfer users. Other than a survey done by Robert Barnes, nothing has been written about Telco in the clubs newsletter, so I thought that I could enlighten some of you about some of

the great features of Telco version 2.2 which is the latest from Charles Earl, the author. I have heard many say that if you have used any IBM communications programs before, you might think you were using one of them while using Telco. I will say right up front that I cut my telecommunicating teeth on Fast Term(F/T) and grew up using Mass Transfer(M/T). So when I make comparisons between these programs and Telco, it is just that, a comparison. F/T and M/T are good programs, it's just after using Telco, I think it is better and I am trying to tell you why I think so.

Where to start with a review of as complex a program as Telco is a bit difficult. Don't let me scare you off by saying complex. I don't mean hard to use, just it is a very comprehensive program. The first thing I would highly recommend is printing the docs and reading them thru completely. This will give you a working knowledge of the program and help you better understand what you are doing once you get started. Telco boots from either E/A option 5 or thru an XB loader. As the docs explain, you will only see the first screen for the first 30 loads of the program and then you go right to the program main menu screen. Everything in this program is menu driven, unlike Fast Term. There are pull down menus in the terminal and buffer review modes(function 7) that tell you what all the control and function keys do. I find this feature very useful when I forget a key I don't use very often, and no more keeping cheat sheets laying all over the computer desk.

There are far too many functions and features in Telco to cover in an article of this scope, so what I will do is cover the parts of the program that really stand out and make it shine. To start with, The Auto Dialer is more versatile than M/T, and I have never used one that worked well in Fast Term. It holds up to 99 phone

numbers and can switch baud rates each time it dials one of 15 different numbers in an auto dial sequence. M/T can only auto dial two numbers and if you have to change baud rates, your in trouble. I also like the macro feature. I can sign on to our club BBS in about one second with only two keystrokes. Ask Gary the Sysop. He has watched as I sign on, if he blinks his eyes, he misses it. I have written macros to log onto The Swamp and VTN, both of which have very long and extensive logon procedures. In both cases, two keystrokes and one or two seconds and I am on. The new PCP dialer I have not been able to try since I no longer have PCP, but when I was on PCP, the regular auto dialer worked great. (Version 1.3 did not have a PCP auto dialer). I have learned how to use the ASCII upload procedure and it is also super. If some of the TI BBS's will include a true Yaodem, not Stu Olsen's version he used for M/T and the MXT BBS, Telco is ready for that. One thing that I wish Telco had is the MXT feature that Mass Transfer has. If Earl ever puts MXT into Telco, I will have absolutely no reason to ever use M/T again. I have also read that if you log onto an IBM BBS in the ANSI mode, you can see the graphics that the TI ADM3A mode cannot see. I have never tried it, but if I do, I will let you know. The buffer review is stupendous. As I said in the beginning of this review, it has a pulldown menu to show you the numerous functions available. One can jump to the top or bottom of the buffer, move one screen at a time, or one line at a time. One can clear the buffer, dump it to any device you chose or send to the printer just the one screen you are currently looking at. If you have the log turned on in block mode, Telco will only keep adding to the log file until it gets to about 18K in size, then that file is closed and a new one is opened with the name incremented. M/T can only scroll the buffer contents for you to review and that is it, and it saves everything from the buffer in the append mode, which means

one huge file after a long session. Putting Telco on a ramdisk makes all functions almost instantaneous. I might explain this function a little more. The way Earl made it possible to have such a large program work on the TI is he broke it down into modules that don't load into memory until needed which means it is a disk intensive program. That is where a ramdisk comes in very handy. Configuring the program to your particular setup is very easy. Just select the "Setup" function from the main menu and follow the screen prompts and the docs. Setting up M/T requires using a sector editor or you must set it up every time after booting it up. It only took me about five minutes to get Telco setup for my system. In fact, Earl made setting up this version even easier than older versions. Putting in macros and phone numbers is just as easy. Everything is saved back to disk for use the next time. The last thing I want to mention is the on-line-editor. Have you ever wished you could compose a message while already connected to a BBS and then send it using the ASCII transfer mode? Well, Telco is the answer to your prayers. You can leave the "terminal" mode and go to the "Edit" mode, compose your message, and save it to disk. Then go back to the "Terminal" mode and send your message. Try that in Fast Term or M/T!

As so many other reviewers like to assign grades to the programs they review, I would have to give Telco the following: Performance-A+, ease of use-A, documentation-B, value-A and of course a final grade of an A. Charles Earl has created a super program that is well worth the \$20 fairware donation that Charles is requesting. You can obtain a copy thru the club or write directly to Earl at 34 McLeod Street, Ottawa, Ontario, Canada, K2P 0Z5. I can't imagine anyone trying Telco and ever going back to anything else.

=====

THE REPRINT ROUNDTABLE

by: Robert E. Barnes

=====

CARE AND CLEANING OF DISK DRIVES

by: Courtland Gray of NUTMEG TI-99ers

Load your program, load your data, save your data. Load another program. In all these operations your disk drive is revolving your disk at the rate of 5 times per second with the read/write heads in contact with the disk. During this contact the read/write heads pick up small particles of iron oxide which is the coating on the disk that contains our valuable information (either programs or data). The heads require periodic cleaning of these particles in order to maintain error-free operation.

The frequency of cleaning is dependent upon the frequency of use; every three months, six months or a year. The methods of cleaning are also many. There are "dry" cleaning disks, "wet" cleaning disks, "wet cleaning disks" (using a special disk and a solution) and disassembly of the drive from its box and cleaning with a swab and DENATURED alcohol. Regular isopropyl alcohol is not recommended because it leaves a residue on the heads.

Considering the three methods available, the least desirable is the "dry" method as it is abrasive to the heads and leads to premature wear. The disassembly and swab method is the most efficient and the technique used by professional drive service companies. The simplest method and the one most of us would use is the "wet" disk solution. These are available as Disk Cleaning Kits, available through office supply houses and computer supply stores. These kits range in price from \$6 to \$30 and offer multiple cleaning which make the pre-cleaning cost average between \$0.50 and \$1.00.

Last, but not least, if you are

transporting your drives, place the cardboard shipping protectors in the drive and close the door. Lacking the shopping protectors, put an old disk in the drive backwards. This prevents the heads from vibrating and misalignment.

RUN THIS PROGRAM WHILE CLEANING YOUR DRIVE

```
100 REM HEADCLEAN
110 REM HEAD CLEANING PROGRAM
120 REM !! TI EXTENDED BASIC ONLY
130 REM BY MILD TSUKROFF NUTNET
    TI-99-ERS
140 CALL CLEAR
150 DISPLAY AT(3,1):" HEAD CLEANING
PROGRAM": "RUN THIS PROGRAM WHILE THE
CLEANING DISK IS IN THE ":"DRIVE."
160 DISPLAY AT(9,1):"TO STOP IT, PRESS
AND HOLD CLEAR (FCTN 4) UNTIL THE":"PR
OGRAM STOPS."
170 DISPLAY AT(15,1):"DISK DRIVE: 1"
```

```
180 ACCEPT AT(15,13)SIZE(-1)VALIDATE(D
ISIT):6
190 ON ERROR 200
200 OPEN #1:"DSK"&STR$(6)&".DUMMY_FILE
",INTERNAL,SEQUENTIAL,VARIABLE 80
80
210 CLOSE #1
220 END
230 PRINT "RETRY #1";
240 X=X+1
250 PRINT X
260 RETURN 190
```

=====
The Librarian
by: Herman Nieuwendaal
=====

There are 12 new disks added to the library this month. Check the NEMADDS listing elsewhere in the Newsletter. That brings the total number of disks full of Fairware in the Club's Library up to 146. I have 14 more that will be added next month. Also, new things

just seem to keep trickling down for the TI so I'm sure the Library will continue to grow.

I want to take some space this month and thank the people that have made my job a lot easier. Garry Smeers has been my main connection for new things coming into the Bay Area, and Cy Leonard has been our main connection for new software from around the world! Henry Neuburger has spent countless hours downloading off of Genie and has also aquired software for us through contacts he made during his term as TI Heaven Sysop.

There are others who have made contributions and it is definitely appreciated, but these three guys together are probably responsible for 90% of the software the club has. Next time you see one of these guys tell them thanks. Herman

THE GTBTIUG OFFICERS
AND NEWSLETTER STAFF
WISH YOU AND YOURS
A VERY
MERRY CHRISTMAS
AND A
HAPPY NEW YEAR

=====

TI BITS Number 12
By Jim Swedlow

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[This article originally appeared in the User Group of Orange County, California ROM]

XB PROGRAMMING TIP

I was working on a program and I ran into something interesting.

I had a variable (A) that could only be either 9 or 7. I needed to separate the beginning of a string. If A was 9, I needed the first 5 characters in the string, otherwise I needed the first 4 characters.

My first approach was:

```
IF A=9 THEN N%=SEG$(A$,1,5)
```

```
ELSE N%=SEG$(A$,1,4)
```

That seemed bulky so I tried this:

```
N%=SEG$(A$,1,5+(A=7))
```

[This works because if A is 7, the expression (A=7) returns -1. Otherwise it returns 0. If this is not clear, try this loop:

```
FOR A=6 TO 8 ::
```

```
PRINT A;A=7;5+(A=7) ::
```

```
NEXT A
```

Note that the parenthesis are only needed for 5+(A=7). Without them, your TI would compare 5+A to 7.]

Back to my tip. That was better, but I did a bit of fiddling and realized that 0.6 times 9 is 5.4 and 0.6 times 7 is 4.2. I tried this:

```
N%=SEG$(A$,1,INT(A*.6))
```

Then I wondered if the INT was needed. It turns out that SEG\$ (like many TI functions) automatically rounds off.

How can you tell if a function rounds? Try using it in a loop:

```
FOR I=1 TO 2 STEP .1
```

```
PRINT I;SEG$("ABC",I,I)
```

```
NEXT I
```

My final expressions was:

```
N%=SEG$(A$,1,A*.6)
```

=====

A Review of the GRAPHX Upgrade
by: Paul E. Scheide mantle

=====

Well if you liked Graphx before you are going to like the New upgrade of the program. A new feature has been added. You can flip, mirror, and rotate sections of your picture. After working with it for a while I found it to be a great help, and alot of fun.

When you are ready to use this new function all you have to do is go to the Copy and Move funtion. Select your option, such as Copy with color, Copy no color, Move with color, and Move no color. Now if your familiar with Graphx, here is where we select the size of the area that we wish to move or copy, in squares 2, 4, 6, and 8 wide. After making this selection and then selecting the area that you wish to work with is when we can use the new function. Press "F" for the feature and then by moving the joystick to the left or right the area will flip to a mirror image, then moving left or right again will flip it back, and so on. If you move the joystick up or down the object will rotate in 90 degree increments. I found that combining these opearations that there are a eight possible orientations. Once you have gotten the picture in the orientation that you want press the joystick fire button to exit the FLip mode. Now you can move or copy your picture just as you would normally. All of the above also applies to the use of the Clipboard functions.

I found these features to be invaluable while designing character sets. Making the program much more workable, especially when making a drawing that will be simetrical about center. It is only necessary to draw half or even a quarter of the object, then mirror the rest with the Flip funtion. Another nice idea here would be if you wanted to print a nice

banner, you can rotate the characters to do so! The only draw back that I found about this new feature is that it can not flip the colors with the picture. This has to do with the way that they are mapped in the TI memory. But all in all with the use of black and white there no problems. One other thing that is nice about the program is that when loading through extended basic, you can now skip the title screen by pressing the 'space bar' and load much faster. Last but not least my upgrade package included a flippie disk full of clipboards, pictures and fonts. I found it to be a good value for the \$19.95 paid.

Paul

MULTIPLAN PART I

by: Audrey Bucher

I would like to start a series of articles about my favorite piece of software, Multiplan. I have found many many uses for this program & haven't even begun to scratch the surface of what it is capable of doing. I'm still a novice user but I would like to share with you some of the uses that I have found for this great program.

My most frequently used file is a combination budget sheet and checkbook balancer. About once a week, I enter all the checks I have written under various budget categories that I have made my deposit entries to. At a glance I can tell if my checkbook balances and just how much money is in the account for various items like insurance, utilities etc.

I also have a file for income tax purposes. I keep a monthly file of all income, (wages, dividends, interest, etc), taxes paid, and all items that qualify for tax deductions. (The number of rows has significantly

decreased this year). Along with these files, I keep a yearly file that uses the xcopy routine to enter a summary of each month's file. So at any time, I can tell exactly how much income I've had, how much I've paid in taxes (ouch) and how much I am able to claim on deductions. No surprises in Jan.

Another file is medical insurance records. I have medical coverage at work and am also covered by my husbands insurance. This is great but at times can be confusing as to who has paid what. MP keeps these records for me better than the insurance companies at times.

My job is a part time position and I accrue vac. and sick leave according to the number of hours that I actually work. I no longer need to rely on personnel to tell me how much leave I am entitled to...MP calculates it for me on a weekly basis. A few months ago, the figures I got from personnel did not

agree with mine. Can you guess who was right? MP of course.

Another interesting file is the utilities. This keeps track of the cost and usage of our utility bills each year. What is so interesting is that even though the usage goes down, the cost goes up.

While I spend my free time at the computer, my husband spends his on the golf course with a few of his buddies. MP keeps a record of their scores, figures their averages, handicaps and gives them a nice printout of the bad news.

In addition to the mathematical capabilities of MP, there are great sorting abilities. I use this in the golf file in order to find a low average to figure the handicap. However, it's great for another file I have...my address list. This gives me a clear concise printout of name, address, city, state, zip, phone and category (such as friend, relative, neighbor). I can sort by any field and

print out only what I choose.

The file that brings a laugh to my friends is my grocery list. I type it in MP and sort it by aisle. (our supermarket recently remodeled and gave out maps which I keep by the computer) They may laugh, but I zip through that store lickety split.

And last but not least, I tried something new today. I used MP as a word processor to write this article. I'm not exactly thrilled with this particular use but I read about it in another newsletter and just had to try it. It was really fascinating how it all came together. I will reprint the article in a future newsletter.

That's all for now folks. Perhaps next time, I'll give some specific examples and also some hints I've picked up in various articles. I would really be interested in hearing of some of the uses to which you put Multiplan. Submit an article if you like. We can learn from each other.

SEASONS

Tom Austin

CRACKINGS

Paul Wiese

Herman Nieuwendaal

Brenda Burwell

Gary Sweers

Judy Chandler

Robert Barnes

TIPS FROM THE TIGERCUB

#46

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TIGERCUB SOFTWARE
156 Collingwood Ave.
Columbus, OH 43213

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Over 130 original programs in Basic and Extended Basic, available on cassette or disk, NOW REDUCED TO JUST \$1.00 EACH!, plus \$1.50 per order for cassette or disk and PP&M. Minimum order of \$10.00. Cassette programs will not be available after my present stock of blanks is exhausted. The Handy Dandy series, and Color Programming Tutor, are no longer available on cassette. Descriptive catalogs, while they last, \$1.00 which is deductible from your first order.

Tigercub Full Disk Collections, reduced to \$5 postpaid. Each of these contains either 5 or 6 of my regular catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - they are a free bonus!
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TIPS FROM THE TIGERCUB VOL. 3, another 62 programs, tips and routines from Nos. 25 through 32, \$10 postpaid.
TIPS FROM THE TIGERCUB VOL.

4, another 48 programs and files from issues 33 through 41, also \$10 postpaid.

TIGERCUB CARE DISKS #1, #2 & #3, three full disks of text files, mostly of lessons on programming in XBasic, \$5 per disk postpaid.

This one is explained in lines 180-190. I think that it will run on any Gemini printer.

```
100 DIM B(25,12),B$(25),CH$(12),L$(12)
110 GOTO 150
120 S,K,T$,C$,V,J,A,CH$(),X,X$,B$(),B(X,J),T,M,Q$,L$(),C,C1$,C2$,L,M$
130 CALL CLEAR :: CALL COLOR :: CALL SCREEN :: CALL CHAR :: CALL KEY :: CALL NUMTH
140 !@P-
150 !SEGMENTED BAR GRAPH
```

by Jim Peterson 10/87

```
160 CALL CLEAR :: FOR S=1 TO 12 :: CALL COLOR(S,2,8):: N
EXT S :: CALL SCREEN(5):: DI
SPLAY AT(3,10):"TIGERCUB" ::
DISPLAY AT(5,6):"SEGMENTED
BAR GRAPH"
170 CALL CHAR(95,"3C4299A1A1
77423C"): DISPLAY AT(7,12):
" _ 1987" :: DISPLAY AT(9,2):
"For free distribution but n
o": "price or copying fee may
be": "charged."
180 DISPLAY AT(14,2):" Will
output to a Gemini": "printer
a horizontal bar-": "graph o
f up to 25 bars, each": "segm
ented into up to 12"
190 DISPLAY AT(18,1):"values
, with a title for": "each an
d optionally with a": "table
of identification of": "the s
egment symbols."
200 DISPLAY AT(24,8):"" :: D
ISPLAY AT(24,9):"PRESS ANY K
EY" :: CALL KEY(O,K,S):: IF
S=0 THEN 200
210 ON WARNING NEXT
220 DISPLAY AT(12,1)ERASE AL
```

```
L:"GRAPH TITLE?" :: ACCEPT A
T(14,1):T$ :: T$=RPT$(" ",17
-LEN(T$)/2)&T$ :: C$=CHR$(27
)
230 DISPLAY AT(16,1):"HOW MA
NY SEGMENTS PER BAR?" :: ACC
EPT AT(16,27)VALIDATE(DIGIT)
SIZE(2):V :: IF V=0 OR V>12
THEN 230
240 !@P+
250 DATA 239,229,168,251,173
,175,184,236,169,250,160,207
260 !@P-
270 FOR J=1 TO V :: READ A :
: CH$(J)=CHR$(A):: NEXT J
280 DISPLAY AT(3,1)ERASE ALL
:"Type END when finished"
290 X=X+1 :: IF X>25 THEN 33
0
300 CALL NUMTH(X,X$):: DISPL
AY AT(12,1):"Title of "&X$&
"bar?" :: ACCEPT AT(14,1):B$(
X):: IF B$(X)="END" OR B$(X
)="end" THEN 330
310 FOR J=1 TO V :: CALL NUM
TH(J,X$):: DISPLAY AT(16,1):
X$&" segment value?" :: ACCE
PT AT(18,1)VALIDATE(NUMERIC)
:B(X,J):: T=T+B(X,J):: NEXT
J
320 M=MAX(M,T):: T=0 :: GOTO
290
330 X=X-1 :: DISPLAY AT(20,1
):"Print labels? Y/N" :: ACC
EPT AT(20,19)VALIDATE("YN")S
IZE(1):Q$ :: IF Q$="N" THEN
350
340 FOR J=1 TO V :: CALL NUM
TH(J,X$):: DISPLAY AT(22,1):
X$&" label?" :: ACCEPT AT(24
,1):L$(J):: NEXT J
350 C=120/M :: C1$=C$&"B"&CH
R$(1)&C$&"G"&C$&"E" :: C2$=C
$&"B"&CHR$(3)
360 OPEN #1:"PIO",VARIABLE 2
55 :: PRINT #1:C$&"E" :: PRI
NT #1:C$&"E"&C$&"G"&C$&"M"&C
HR$(6)
370 PRINT #1:CHR$(14)&T$&CHR
$(20):"";RPT$(CHR$(229),70):
; :: PRINT #1:C$&"3"&CHR$(1
0)
380 FOR J=1 TO X :: PRINT #1
:B$(J)&C2$ :: FOR L=1 TO V :
: M$=M$&RPT$(CH$(L),INT(B(J,
```



```

L)&C+.5)):: NEXT L
390 PRINT #1:RPT$(CHR$(232),
LEN(M$)):: PRINT #1:M$ :: PR
INT #1:M$ :: PRINT #1:RPT$(C
HR$(231),LEN(M$))
400 M$="" :: PRINT #1:C1$::
NEXT J :: IF Q$="N" THEN ST
OP
410 PRINT #1:"": ""
420 FOR J=1 TO V :: PRINT #1
:C2$&RPT$(CHR$(232),10):: PR
INT #1:RPT$(CHR$(J),10)&C1$&
"&L$(J):: PRINT #1:C2$&
RPT$(CHR$(J),10):: PRINT #1:R
PT$(CHR$(231),10):: NEXT J
430 !@P+
440 SUB NUMTH(N,N$):: IF FLA
G=1 THEN 520 :: FLAG=1 :: RE
STORE 480
450 GOTO 480
460 J,ONE$( ),TEEN$( ),TEN$( ),
N,N$
470 !@P-
480 DATA first,second,third,
fourth,fifth,sixth,seventh,e
ighth,ninth,tenth
490 DATA eleventh,twelfth,th
irteenth,fourteenth,fifteent
h,sixteenth,seventeenth,eigh
teenth,nineteenth
500 DATA twenty,THIRTY,FORTY
,FIFTY,SIXTY,SEVENTY,EIGHTY,
NINETY
510 FOR J=1 TO 10 :: READ ON
E$(J):: NEXT J :: FOR J=1 TO
9 :: READ TEEN$(J):: NEXT J
:: FOR J=2 TO 9 :: READ TEN
$(J):: NEXT J
520 IF N<11 THEN N$=ONE$(N):
: SUBEXIT
530 IF N<20 THEN N$=TEEN$(N-
10):: SUBEXIT
540 IF N/10=INT(N/10)THEN N$
=SEG$(TEN$(N/10),1,LEN(TEN$(
N/10))-1)&"ieth" :: SUBEXIT
550 N$=TEN$(INT(N/10))&"-&D
NE$(N/10-INT(N/10))$10)
560 !@P+
570 SUBEND

120 S,J,M$( ),A$,Z$,K,M$( ),X,
Y,ADV$,A,Q$
130 CALL CLEAR :: CALL COLOR
:: CALL SCREEN :: CALL CHAR
:: CALL KEY :: CALL ADVERB
:: CALL SOUND
140 !@P-
150 CALL CLEAR :: FOR S=0 TO
12 :: CALL COLOR(S,2,8):: N
EXT S :: CALL SCREEN(S):: DI
SPLAY AT(3,2):"ADJECTIVE TO
ADVERB V.1.3"
160 CALL CHAR(64,"3C4299A1A1
99423C"):: DISPLAY AT(5,6):"
@ Tigercub Software";;" For
free distribution with no
charge or copying fee."
170 FOR J=1 TO 100 :: READ M
$(J):: A$=A$&CHR$(J):: NEXT
J :: Z$=A$ :: CALL KEY(3,K,S
)
180 M$(1)=" If adjective end
s in Y, change the Y to
ILY." :: M$(2)=" If adjectiv
e ends in C, add ALLY."
190 M$(3)=" If adjective end
s in LL, just add Y."
200 M$(4)=" If adjective end
s in LE, preceded by a con
sonant, drop the E and ad
d Y."
210 M$(5)=" If the word ends
in E preceded by a con
sonant, preceded by a vow
el, just add LY."
220 M$(6)=" This word is an
exception to the rule - the
adverb is WHOLLY."
230 M$(7)=" If the adjective
does not end in C,E,LL or
Y, always just add LY."
240 M$(8)=" This is an excep
tion to the rule. The prefer
red adverb form is DRYLY."
250 M$(9)=" If the adjective
ends in E preceded by a vo
wel, drop the E and add LY
."
260 M$(10)=" If the adjectiv
e ends in E preceded by a co
nsonant other than L, ad
d LY."
270 RANDOMIZE :: X=INT(RND$L
EN(Z$)+1):: Y=ASC(SEG$(Z$,X,
1)):: Z$=SEG$(Z$,1,X-1)&SE$$(
Z$,X+1,255):: IF LEN(Z$)=0
THEN Z$=A$
280 ACCEPT AT(24,1):M$(Y)
290 CALL ADVERB(M$(Y),ADV$,A
)
300 DISPLAY AT(12,1):" Type
the adverb form of -" :: DIS
PLAY AT(15,1):M$(Y):: DISPLA
Y AT(18,10):" :: ACCEPT AT(
15,15)BEEP:Q$
310 IF Q$=ADV$ THEN DISPLAY
AT(18,10):"CORRECT!" :: GOTO
240
320 CALL SOUND(100,110,5,-4,
5):: DISPLAY AT(20,1):M$(A):
":": "" :: GOTO 300
330 !@P+
340 DATA DUE,COOL,SOLE,STOIC
,FRANTIC,COMIC,ABLE,FULL,POO
R,HANDY,SORE,SOCIAL,PENAL,SL
OW,HIGH,LOW
350 !@P-
360 DATA FRISKY,PLAYFUL,HEAL
THY,ROUGH,BUSY,SILLY,SICK,SM
ART,SORE,FAIR,ANGRY,DARE,TIR
ED,WISHFUL,ACTUAL
370 DATA HASTY,LONE,HECTIC,O
FFICIAL,MAGIC,MAGICAL,MATHEM
ATIC,LOGIC,TRAGIC,PATHETIC,T
RAUMATIC
380 DATA DRAMATIC,AUTOMATIC,
AROMATIC,EQUAL,SERIAL,BASIC,
USUAL,FAVORABLE,UNSTABLE,LEG
IBLE
390 DATA HECTIC,LIVE,WARY,VI
SIBLE,TERRIBLE,HORRIBLE,VIVI
D,FANCY,EASY,VILE,WICKED,BLO
ODY,SHODDY
400 DATA NOBLE,HAPPY,LEGAL,M
ERRY,JOLLY,CRAZY,CASUAL,CARE
FUL,FOOLISH,FAMOUS,GAY,GUILT
Y
410 DATA HOPEFUL,HATEFUL,TIM
ID,BRAVE,BEAUTIFUL,DRY,NICE,
LARGE,PAINFUL,SINFUL,SORROWF
UL,SIMPLE,WILLFUL
420 DATA MENTAL,MORAL,PALE,W
HOLE,HUNGRY,FINAL,FORMAL,TRU
E,AMPLE,DOUBLE
430 !@P+
440 SUB ADVERB(M$,ADV$,A)::
L=LEN(M$):: E$=SEG$(M$,L,1):
: F$=SEG$(M$,L-1,2):: G$=SEG
$(M$,L-1,1):: P$=SEG$(M$,1,L
-1):: H$=SEG$(M$,L-2,1)
450 IF ASC(SEG$(M$,1,1))<97
THEN A$="ALLY" :: I$="ILY" :
: L$="LY" :: Y$="Y" :: V$="A
EIQU" ELSE A$="ally" :: I$="
ily" :: L$="ly" :: Y$="y" ::
460 IF M$="WHOLE" THEN ADV$=
"WHOLLY" :: A=6 :: SUBEXIT
470 IF M$="DRY" THEN ADV$="D
RYLY" :: A=8 :: SUBEXIT ELSE
IF F$="LL" OR F$="ll" THEN
ADV$=M$&Y$ :: A=3 :: SUBEXIT
480 IF E$="C" OR E$="c" THEN
ADV$=M$&A$ :: A=2 :: SUBEXI
T ELSE IF E$="Y" OR E$="y" T
HEN ADV$=P$&I$ :: A=1 :: SUB
EXIT
490 IF E$<>"E" AND E$<>"e" T
HEN 530
500 IF G$="L" OR G$="l" THEN
IF POS(V$,H$,1)<>0 THEN ADV
$=M$&L$ :: A=5 :: SUBEXIT EL
SE ADV$=P$&Y$ :: A=4 :: SUBE
XIT
510 IF POS(V$,G$,1)<>0 THEN
ADV$=P$&L$ :: A=9 :: SUBEXIT
520 IF POS(V$,SEG$(M$,L-2,1
),1)=0 THEN ADV$=M$&L$ :: A=1
0 :: SUBEXIT ELSE ADV$=M$&L$
:: A=5 :: SUBEXIT
530 ADV$=M$&L$ :: A=7 :: SUB
END

100 !MOCKINGBIRD TINYGRAM by
Jim Peterson. Tap your
tune on the 1 to 0 keys
(tuned A through C)
110 !Then press any other
key to hear it repeated
120 DATA 220,247,262,294,330
,349,392,440,494,523
130 FOR J=1 TO 10 :: READ N(
J):: NEXT J :: J=0 :: DIM T(
50,2)
140 CALL KEY(5,K,S):: IF S=0
THEN 140
150 ON ERROR 190
160 CALL KEY(5,K,S):: IF K=
1 THEN 160 :: K=K-(K=48)*10
:: T(J,1)=N(K-48):: CALL SOU
ND(-999,T(J,1),0)
170 IF K=K2 THEN T(J,2)=T(J,
2)+1 :: GOTO 160
180 K2=K :: J=J+1 :: GOTO 16
0
190 FOR X=0 TO J-1 :: CALL S

```

And a little something educational -

```

100 DIM M$(100)
110 GOTO 150

```

```

DUND((T(X,2)+1)*400,T(X,1),0
,T(X,1)*1.01,0):: NEXT X ::
J=0 :: GOTO 140

```

A little subprogram to add a bit of variety to your "PRESS ANY KEY" routine.

```

1 CALL CLEAR :: CALL PRESSKEY
Y(24)
30000 SUB PRESSKEY(R)
30001 C=C+1 :: IF C=16 THEN
30002 :: DISPLAY AT(R,1):""
:: DISPLAY AT(R,C):"PRESS AN
Y KEY" :: DISPLAY AT(R,C):"p
ress any key" :: CALL KEY(0,
K,S):: IF S=0 THEN 30001 ELS
E 30003
30002 C=C-1 :: IF C=0 THEN 3
0001 :: DISPLAY AT(R,1):"" :
: DISPLAY AT(R,C):"PRESS ANY
KEY" :: DISPLAY AT(R,C):"pr
ess any key" :: CALL KEY(0,K
,S):: IF S=0 THEN 30002
30003 DISPLAY AT(R,1):"" ::
SUBEND

```

And a new way to wipe the screen -

```

1 CALL CORNERWIPE(30)
29000 SUB CORNERWIPE(CH):: F
OR T=1 TO 24 :: CALL HCHAR(T
,3,CH,T+4):: CALL HCHAR(25-T
,32-T,CH,T):: NEXT T :: CALL
CLEAR :: SUBEND

```

MEMORY FULL

Jin Peterson

TI-HEAVEN

GTB TIUG Software Library
New Additions

This is a list of new disks that have been added to the club's library in the last month. Any updates to existing programs are also listed here.

GREATER TAMPA BAY TI USERS LIBRARY
New Additions Updated:11/11/88

@ in file number indicates ARC'ed files

XB-GRAPHIC Several graphic demo type programs that all load from XB. Hours of visual entertainment. Menu Driven

MISC/UTILS Several unrelated but useful programs. A font maker; a clock program; a catalog utility named FU Cat; a menu planner; much more. Menu driven.

PRTR/UTILS Several printer utilities including a banner maker; calendar printer; envelop printer; strip overlay maker; disk labeler; more

PRAMUTILS Use this program to create and manage custom character sets for your Gemini 10X. Includes Docs for converting to other printers.

SHOPLIST Creates a shopping list by isle to help you organize your shopping trips. Docs included.

FORCASTERS Several programs that forecast weather; day of the week; heat index; wind chill; reading level and lotto numbers. Menu driven.

CALCULATE Several mathematical and electrical calculating programs including a metric converter; a Hex/decimal/binary converter; a Roman numeral generator and much more. Menu driven

DL99V2 Disk Labeler 99 vers. 2. YB139U1 Catalogs disks in a large variety of ways. Has over 4600 printing formats possible. Docs included.

RAG-ASMBLR Ragsoft Assembler. Allows defining macros to combine common assembler routines into 1 command. Loads from Extended Basic Docs included

AXIOM-550 Several labeler / screen dump programs modified to run work with the Axiom GP 550 printer. Donated by GTBTIUG member.

DUMPFAST A screen dump program that can be used with XB programs to print screen graphics in standard or double width. Docs included.

TEXT-PAINT A graphics programs that allows you to combine text and pictures on your printouts and documents. Docs included.